

## Patent Abstracts of Japan

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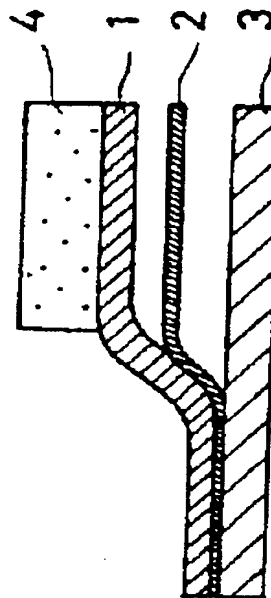
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TITLE : MANUFACTURE OF METALLIC  
COMBINED MATERIAL



ABSTRACT : PURPOSE: To easily manufacture the clad plate obtained by combining metals whose pressure welding is difficult by inserting a sheet having mass of a limited ratio against mass of a clad material between a clad sheet and a base metal and executing pressure welding, at the time of executing explosion pressure welding of two kinds of metallic materials.

CONSTITUTION: At the time of executing explosion pressure welding of two kinds of metallic materials 1, 3, a sheet (intermediate material) 2 having mass of  $\leq 50\%$  of mass of a clad material 1 is inserted between the clad material 1 and a base metal 3, and three pieces of plates 1, 2 and 3 are subjected to explosion bonding. In such a way, a clad obtained by combining metals whose explosion pressure welding is difficult can be manufactured simply. In this regard, in the case density of the clad material 1 is low, and also, plate thickness is thin, it becomes difficult for handling to suppress the mass of the intermediate material 2 to  $\leq 50\%$  thereof, therefore, it will suffice that a flying plate is used on the clad material 1, and the mass of the intermediate material 2 is set to  $\leq 50\%$  against the sum of both the mass.

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